



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

ALIGNMENT MEANS FOR CHAMBER CLOSURE TO  
REUDCE WEAR ON SURFACES

Application Number: 10/639077



Confirmation Number: 6943

First Named Applicant: Joseph Hillman

Attorney Docket Number:

Search string: ( 5193560 or 5195878 or 5213485 or 5221019  
or 5222876 or 5224504 or 5236669 or 5237824  
or 5240390 or 5243821 or 5246500 or 5251776  
or 5267455 or 5280693 or 5285352 or 5288333  
or 5313965 or 5314574 or 5328722 or 5337446  
or 5339844 or 5355901 or 5368171 or 5370741  
or 5377705 or 5401322 or 5404894 or 5412958  
or 5417768 or 5433334 or 5447294 or 5503176  
or 5505219 or 5509431 or 5526834 or 5533538  
or 5571330 or 5589224 or 5621982 or 5629918  
or 5644855 or 5649809 or 5656097 or 5669251  
or 5702228 or 5706319 or 5746008 or 5797719  
or 5798126 or 5881577 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	5193560	1993-03-16	Tanaka et al.			
<input checked="" type="checkbox"/>	2	5195878	1993-03-23	Sahiavo et al.			
<input checked="" type="checkbox"/>	3	5213485	1993-05-25	Wilden			
<input checked="" type="checkbox"/>	4	5221019	1993-06-22	Pechacek			
<input checked="" type="checkbox"/>	5	5222876	1993-06-29	Budde			
<input checked="" type="checkbox"/>	6	5224504	1993-07-06	Thompson et al.			
<input checked="" type="checkbox"/>	7	5236669	1993-08-17	Simmons et al.			
<input checked="" type="checkbox"/>	8	5237824	1993-08-24	Pawliszyn			
<input checked="" type="checkbox"/>	9	5240390	1993-08-31	Kvinge et al.			
<input checked="" type="checkbox"/>	10	5243821	1993-09-14	Schuck et al.			

11	5246500	1993-09-21	Samata et al.
12	5251776	1993-10-12	Morgan Jr. et al.
13	5267455	1993-12-07	Deweese et al.
14	5280693	1994-01-25	Heudecker
15	5285352	1994-02-08	Pastore et al.
16	5288333	1994-02-22	Tanaka et al.
17	5313965	1994-05-24	Palen
18	5314574	1994-05-24	Takahashi
19	5328722	1994-07-12	Ghanayem et al.
20	5337446	1994-08-16	Smith et al.
21	5339844	1994-08-23	Stanford Jr. et al.
22	5355901	1994-10-18	Mielnik et al.
23	5368171	1994-11-29	Jackson
24	5370741	1994-12-06	Bergman
25	5377705	1995-01-03	Smith, Jr. et al.
26	5401322	1995-03-28	Marshall
27	5404894	1995-04-11	Shiraiwa
28	5412958	1995-05-09	Iliff et al.
29	5417768	1995-05-23	Smith, Jr. et al.
30	5433334	1995-07-18	Reneau
31	5447294	1995-09-05	Sakata et al.
32	5503176	1996-04-02	Dunmire et al.
33	5505219	1996-04-09	Lansberry et al.
34	5509431	1996-04-23	Smith, Jr. et al.
35	5526834	1996-06-18	Mielnik et al.
36	5533538	1996-07-09	Marshall
37	5571330	1996-11-05	Kyogoku
38	5589224	1996-12-31	Tepman et al.
39	5621982	1997-04-22	Yamashita et al.
40	5629918	1997-05-13	Ho et al.
41	5644855	1997-07-08	McDermott et al.
42	5649809	1997-07-22	Stapelfeldt
43	5656097	1997-08-12	Olesen et al.
44	5669251	1997-09-23	Townsend et al.
45	5702228	1997-12-30	Tamai et al.
46	5706319	1998-01-06	Holtz

<input checked="" type="checkbox"/>	47	5746008	1998-05-05	Yamashita et al.
<input checked="" type="checkbox"/>	48	5797719	1998-08-25	James et al.
<input checked="" type="checkbox"/>	49	5798126	1998-08-25	Fijikawa et al.
<input checked="" type="checkbox"/>	50	5881577	1999-03-16	Sauer et al.

## Remarks

Note: Remarks are not for responding to an office action.

Non US Patent and Publication references shall be filed under a separate paper transmittal. The current electronic filing contains part 2 out of a total of 4 electronic filings.

## Signature

Examiner Name	Date
<i>R<sub>2</sub></i>	10-14-05



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Application Number: 10/639077



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First Named Applicant: Joseph Hillman

Attorney Docket Number:

Search string: ( 5882165 or 5888050 or 5898727 or 5900107  
or 5904737 or 5928389 or 5932100 or 5934856  
or 5934991 or 5979306 or 5980648 or 5981399  
or 5989342 or 6005226 or 6017820 or 6029371  
or 6035871 or 6037277 or 6053348 or 6056008  
or 6067728 or 6077053 or 6077321 or 6082150  
or 6085935 or 6097015 or 6128830 or 6145519  
or 6159295 or 6164297 or 6186722 or 6203582  
or 6216364 or 6228563 or 6235634 or 6239038  
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or 6286231 or 6305677 or 6334266 or 6344174  
or 6388317 or 6389677 or 6418956 or 6436824  
or 6454945 or 6464790 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
✓	1	5882165	1999-03-16	Maydan et al.			
✓	2	5888050	1999-03-30	Fitzgerald et al.			
✓	3	5898727	1999-04-27	Fujikawa et al.			
✓	4	5900107	1999-05-04	Murphy et al.			
✓	5	5904737	1999-05-18	Preston et al.			
✓	6	5928389	1999-07-27	Jevtic			
✓	7	5932100	1999-08-03	Yager et al.			
✓	8	5934856	1999-08-10	Asakawa et al.			
✓	9	5934991	1999-08-10	Rush			
✓	10	5979306	1999-11-09	Fujikawa et al.			
✓							

✓	11	5980648	1999-11-09	Adler	
✓	12	5981399	1999-11-09	Kawamura et al.	
✓	13	5989342	1999-11-23	Ikeda et al.	
✓	14	6005226	1999-12-21	Aschner et al.	
✓	15	6017820	2000-01-25	Ting et al.	
✓	16	6029371	2000-02-29	Kamikawa et al.	
✓	17	6035871	2000-03-14	Eui-Yeol	
✓	18	6037277	2000-03-14	Masakara et al.	
✓	19	6053348	2000-04-25	Morch	
✓	20	6056008	2000-05-02	Adams et al.	
✓	21	6067728	2000-05-30	Farmer et al.	
✓	22	6077053	2000-06-20	Fujikawa et al.	
✓	23	6077321	2000-06-20	Adachi et al.	
✓	24	6082150	2000-07-04	Stucker	
✓	25	6085935	2000-07-11	Malchow et al.	
✓	26	6097015	2000-08-01	McCullough et al.	
✓	27	6128830	2000-10-10	Bettcher et al.	
✓	28	6145519	2000-11-14	Konishi et al.	
✓	29	6159295	2000-12-12	Maskara et al.	
✓	30	6164297	2000-12-26	Kamikawa	
✓	31	6186722	2001-02-13	Shirai	B1
✓	32	6203582	2001-03-20	Berner et al.	B1
✓	33	6216364	2001-04-17	Tanaka et al.	B1
✓	34	6228563	2001-05-08	Starov et al.	B1
✓	35	6235634	2001-05-22	White et al.	B1
✓	36	6239038	2001-05-29	Wen	B1
✓	37	6241825	2001-06-05	Wytman	B1
✓	38	6251250	2001-06-26	Keigler	B1
✓	39	6244121	2001-06-12	Hunter	B1
✓	40	6277753	2001-08-21	Mullee et al.	B1
✓	41	6286231	2001-09-11	Bergman et al.	B1
✓	42	6305677	2001-10-23	Lenz	B1
✓	43	6334266	2002-01-01	Moritz et al.	B1
✓	44	6344174	2002-02-05	Miller et al.	B1
✓	45	6388317	2002-05-14	Reese	B1
✓	46	6389677	2002-05-21	Lenz	B1

47	6418956	2002-07-16	Bloom	B1
48	6436824	2002-08-20	Chooi et al.	B1
49	6454945	2002-09-24	Weigl et al.	B1
50	6464790	2002-10-15	Shertinsky et al.	B1

## Remarks

Note: Remarks are not for responding to an office action.

Non US Patent and Publication references shall be filed under a separate paper transmittal. The current electronic filing contains part 3 out of a total of 4 electronic filings.

## Signature

Examiner Name	Date
<i>Re</i>	10-14-05



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First Named Applicant: Joseph Hillman

Attorney Docket Number:

Search string: ( 6521466 or 6541278 or 6546946 or 6550484  
or 6558475 or 6561213 or 6561220 or 6561481  
or 6561767 or 6564826 or 5217043 or  
20020001929 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	6521466	2002-02-18	Castrucci	B1		
<input checked="" type="checkbox"/>	2	6541278	2003-04-01	Morita et al.	B1		
<input checked="" type="checkbox"/>	3	6546946	2003-04-15	Dunmire	B1		
<input checked="" type="checkbox"/>	4	6550484	2003-04-22	Gopinath et al.	B1		
<input checked="" type="checkbox"/>	5	6558475	2003-05-06	Jur et al.	B1		
<input checked="" type="checkbox"/>	6	6561213	2003-05-13	Wang et al.	B1		
<input checked="" type="checkbox"/>	7	6561220	2003-05-13	McCullough et al.	B1		
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<input checked="" type="checkbox"/>	9	6561767	2003-05-13	Biberger et al.	B1		
<input checked="" type="checkbox"/>	10	6564826	2003-05-20	Shen	B1		
<input checked="" type="checkbox"/>	11	5217043	1993-06-08	Novakovi			

### US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	20020001929	2002-01-03	Biberger et al.	A1		

## Remarks

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Non US Patent and Publication references shall be filed under a separate paper transmittal. The current electronic filing contains part 4 out of a total of 4 electronic filings.

## Signature

Examiner Name	Date
<i>Ren</i>	10-14-05





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or 4029517 or 4091643 or 4245154 or 4341592  
or 4355937 or 4367140 or 4406596 or 4422651  
or 4474199 or 4522788 or 4549467 or 4592306  
or 4601181 or 4626509 or 4670126 or 4682937  
or 4693777 or 4749440 or 4778356 or 4788043  
or 4789077 or 4823976 or 4825808 or 4827867  
or 4838476 or 4865061 or 4879431 or 4917556  
or 4924892 or 4951601 or 4960140 or 4983223  
or 5011542 or 5044871 or 5062770 or 5071485  
or 5105556 or 5143103 or 5167716 or 5169296  
or 5169408 or 5185296 or 5186718 or 5188515  
or 5190373 or 5191993 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	2617719	1952-11-11	C. R. Stewart			
<input checked="" type="checkbox"/>	2	2625886	1953-01-20	Browne			
<input checked="" type="checkbox"/>	3	3744660	1973-07-10	Gaines et al.			
<input checked="" type="checkbox"/>	4	3968885	1976-07-13	Hassan et al.			
<input checked="" type="checkbox"/>	5	4029517	1977-06-14	Rand			
<input checked="" type="checkbox"/>	6	4091643	1978-05-30	Zucchini			
<input checked="" type="checkbox"/>	7	4245154	1981-01-13	Uehara et al.			
<input checked="" type="checkbox"/>	8	4341592	1982-07-27	Shortes et al.			
<input checked="" type="checkbox"/>	9	4355937	1982-10-26	Mack et al.			
<input checked="" type="checkbox"/>	10	4367140	1983-01-04	Wilson			

✓	11	4406596	1983-09-27	Budde
✓	12	4422651	1983-12-27	Platts
✓	13	4474199	1984-10-02	Blaudszun
✓	14	4522788	1995-06-11	Sitek et al.
✓	15	4549467	1985-10-29	Wilden et al.
✓	16	4592306	1986-06-03	Gallego
✓	17	4601181	1986-07-22	Privat
✓	18	4626509	1986-12-02	Lyman
✓	19	4670126	1987-06-02	Messer et al.
✓	20	4682937	1987-07-28	Credle, Jr.
✓	21	4693777	1987-09-15	Hazano et al.
✓	22	4749440	1988-06-07	Blackwood et al.
✓	23	4778356	1988-10-18	Hicks
✓	24	4788043	1988-11-29	Kagiyama et al.
✓	25	4789077	1988-12-06	Noe
✓	26	4823976	1989-04-25	White, III et al.
✓	27	4825808	1989-05-02	Takahashi et al.
✓	28	4827867	1989-05-09	Takei et al.
✓	29	4838476	1989-06-13	Rahn
✓	30	4865061	1989-09-12	Fowler et al.
✓	31	4879431	1989-11-07	Bertoncini
✓	32	4917556	1990-04-17	Stark et al.
✓	33	4924892	1990-05-15	Kiba et al.
✓	34	4951601	1990-08-28	Maydan et al.
✓	35	4960140	1990-10-02	Ishijima et al.
✓	36	4983223	1991-01-08	Gessner
✓	37	5011542	1991-04-30	Weil
✓	38	5044871	1991-09-03	Davis et al.
✓	39	5062770	1991-11-05	Story et al.
✓	40	5071485	1991-12-10	Matthews et al.
✓	41	5105556	1992-04-21	Kurokawa et al.
✓	42	5143103	1992-09-01	Basso et al.
✓	43	5167716	1992-12-01	Boitnott et al.
✓	44	5169296	1992-12-08	Wilden
✓	45	5169408	1992-12-08	Biggerstaff et al.
✓	46	5185296	1993-02-09	Morita et al.

M	47	5186718	1993-02-16	Tepman et al.
M	48	5188515	1993-02-23	Horn
M	49	5190373	1993-03-02	Dickson et al.
M	50	5191993	1993-03-09	Wanger et al.

## Remarks

Note: Remarks are not for responding to an office action.

Non US Patent and Publication references shall be filed under a separate paper transmittal. The current electronic filing contains part 1 out of a total of 4 electronic filings.

## Signature

Examiner Name	Date
<i>Re</i>	10-14-05

FORM PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: SSI-08100

Serial No.: 10/639,077

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(Use Several Sheets If Necessary)

Applicant: Joseph Hillman

(37 CFR § 1.98)

Filing Date: August 11, 2003

Group Art Unit: 1762

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
K	AA	CN 1399790 A	02/26/03	China	H01L	21/00		X
K	AB	DE 36 08 783 A1	09/17/87	Germany	C30B	25/12		X
K	AC	DE 198 60 084 A1	07/06/00	Germany	H01L	21/3213		X
K	AD	EP 0 244 951 A2	11/11/87	EPO	H01L	21/00		X
K	AE	EP 0 272 141 A2	06/22/88	EPO	H01L	21/00		X
K	AF	EP 0 453 867 A1	10/30/91	EPO	F16K	51/02		X
K	AG	EP 0 572 913 A1	12/08/93	EPO	B01D	11/02		X
K	AH	EP 0 587 168 A1	03/16/94	EPO	B08B	7/00		X
K	AI	EP 0 679 753 B1	11/02/95	EPO	D06F	43/00		X
K	AJ	EP 0 903 775 A2	03/24/99	EPO	H01L	21/00		X
K	AK	FR 1.499.491	09/18/67	France	F16K			X
K	AL	GB 2 003 975	03/21/79	Great Britain	F04B	43/06		X
K	AM	GB 2 193 482	02/10/88	Great Britain	B25J	18/02		X
K	AN	JP 2-148841	06/07/90	Japan	H01L	21/306		X
K	AO	JP 2-209729	8/21/90	Japan	H01L	21/302		X
K	AP	JP 8-186140	07/16/96	Japan	H01L	21/56		X
K	AQ	JP 10-144757	05/29/98	Japan	H01L	21/68		X
K	AR	JP 10-335408	12/18/98	Japan	H01L	21/31	X	
K	AS	JP 11-200035	07/27/99	Japan	C23C	14/34		X
K	AT	JP 56-142629	11/07/81	Japan	H01L	21/205		X
K	AU	JP 60-238479	11/27/85	Japan	C23C	14/56		X
K	AV	JP 60-246635	12/06/85	Japan	H01L	21/302		X
K	AW	JP 61-231166	10/15/86	Japan	C23C	14/24		X
K	AX	JP 62-125619	06/06/87	Japan	H01L	21/30		X
K	AY	JP 63-303059	12/09/88	Japan	C23C	14/22		X
K	AZ	2000/106358	04/11/00	Japan	H01L	21/3065		X
K	BA	SE 251213	08/16/48	Swiss	I00a			X
K	BB	WO 87/07309	12/03/87	PCT	C23C	16/00		X
K	BC	WO 91/12629	08/22/91	PCT	H01L	21/00		X
K	BD	WO 99/18603	04/15/99	PCT	H 01L	21/00		X
K	BE	WO 00/36635	06/22/00	PCT	H01L	21/00		X
K	BF	WO 01/10733 A1	2/15/01	PCT	B65D	55/00		X
K	BG	WO 01/33615 A3	5/10/01	PCT	H01L	21/00		X
K	BH	WO 01/55628 A1	08/02/01	PCT	F16K	51/02		X
K	BI	WO 01/68279 A2	09/20/01	PCT	B08B	7/00		X

Examiner:

Ran

Date Considered:

10-14-05

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: SSI-08100

Serial No.: 10/639,077

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(Use Several Sheets If Necessary)

Applicant: Joseph Hillman

Filing Date: August 11, 2003

Group Art Unit: 1762

(37 CFR § 1.98(b))

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
<input checked="" type="checkbox"/>	BJ	WO 01/74538 A1	10/11/01	PCT	B24C	1/00		X
<input checked="" type="checkbox"/>	BK	WO 01/78911 A1	10/25/01	PCT	B08B	3/00		X
<input checked="" type="checkbox"/>	BL	WO 01/85391 A2	11/15/01	PCT	B24B			X
<input checked="" type="checkbox"/>	BM	WO 01/94782 A3	12/13/01	PCT	F04B	43/02		X
<input checked="" type="checkbox"/>	BN	WO 02/16051 A2	02/28/02	PCT	B05D			X
<input checked="" type="checkbox"/>	BO	WO 03/030219 A2	10/04/03	PCT	H01L			X

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

<input checked="" type="checkbox"/>	BP	Hideaki Itakura et al., "Multi-Chamber Dry Etching System", Solid State Technology, April 1982, pp. 209-214.
<input checked="" type="checkbox"/>	BQ	Sun, Y.P. et al., "Preparation of Polymer-Protected Semiconductor Nanoparticles Through the Rapid Expansion of Supercritical Fluid Solution," Chemical Physics Letters, pp. 585-588, May 22, 1998.
<input checked="" type="checkbox"/>	BR	Dahmen, N. et al., "Supercritical Fluid Extraction of Grinding and Metal Cutting Waste Contaminated with Oils," Supercritical Fluids - Extraction and Pollution Prevention, ACS Symposium Series, Vol. 670, pp. 270-279, 21 Oct 1997.
<input checked="" type="checkbox"/>	BS	Xu, C. et al., "Submicron-Sized Spherical Yttrium Oxide Based Phosphors Prepared by Supercritical CO <sub>2</sub> -Assisted aerosolization and pyrolysis," Appl. Phys. Lett., Vol. 71, No.12, September 22, 1997, pp. 1643-1645.
<input checked="" type="checkbox"/>	BT	Courteuisse, V.G. et al., "Kinetics of the Titanium Isopropoxide Decomposition in Supercritical Isopropyl Alcohol," Ind. Eng. Chem. Res., Vol. 35, No. 8, pp. 2539-2545, Aug 1996.
<input checked="" type="checkbox"/>	BU	Gallagher-Wetmore, P. et al., "Supercritical Fluid Processing: A New Dry Technique for Photoresist Developing," SPIE Vol. 2438, pp.694-708, Jun. 1995.
<input checked="" type="checkbox"/>	BV	McHardy, J. et al., "Progress in Supercritical CO <sub>2</sub> Cleaning," SAMPE Jour., Vol. 29, No. 5, pp. 20-27, September 1993.
<input checked="" type="checkbox"/>	BW	Purtell, R. et al., "Precision Parts Cleaning using Supercritical Fluids," J. Vac. Sci. Technol. A. Vol. 11, No. 4, July 1993, pp. 1696-1701.
<input checked="" type="checkbox"/>	BX	Hansen, B.N. et al., "Supercritical Fluid Transport - Chemical Deposition of Films," Chem. Mater., Vol. 4, No. 4, pp. 749-752, 1992.
<input checked="" type="checkbox"/>	BY	Hybertson, B.M. et al., "Deposition of Palladium Films by a Novel Supercritical Fluid Transport Chemical Deposition Process," Mat. Res. Bull., Vol. 26, pp. 1127-1133, 1991.
<input checked="" type="checkbox"/>	BZ	Ziger, D. H. et al., "Compressed Fluid Technology: Application to RJE-Developed Resists," AiChE Jour., Vol. 33, No. 10, pp. 1585- 1591, October 1987.
<input checked="" type="checkbox"/>	CA	Matson, D.W. et al., "Rapid Expansion of Supercritical Fluid Solutions: Solute Formation of Powders, Thin Films, and Fibers," Ind. Eng. Chem. Res., Vol. 26, No. 11, pp. 2298-2306, 1987.
<input checked="" type="checkbox"/>	CB	Tolley, W.K. et al., "Stripping Organics from Metal and Mineral Surfaces using Supercritical Fluids," Separation Science and Technology, Vol. 22, pp. 1087-1101, 1987.
<input checked="" type="checkbox"/>	CC	Joseph L. Foszcz, "Diaphragm Pumps Eliminate Seal Problems", Plant Engineering, pp. 1-5, February 1, 1996.
<input checked="" type="checkbox"/>	CD	Bob Agnew, "WILDEN Air-Operated Diaphragm Pumps", Process & Industrial Training Technologies, Inc., 1996.
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	CJ	
	CK	
	CL	
	CM	

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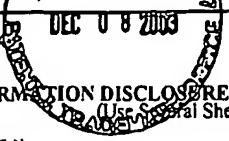
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Date Considered:

10-14-05

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1442 (Modified)				U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: SSI-08100		Serial No.: 10/639,077	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)						Applicant: Joseph Hillman			
(37 CFR § 1.98(b))						Filing Date: August 11, 2003		Group Art Unit: 1762	

U.S. PATENT DOCUMENTS							
Examiner Initials	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date	
✓	AA	5,672,204	09/30/97	Habuka	117	204	04/25/96
✓	AB	5,817,178	10/06/98	Mita et al.	118	666	05/29/96
✓	AC	6,508,259 B1	01/21/03	Tseronis et al.	134	105	08/04/00
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	AG						
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	AJ						


  

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS								
Examiner Initials	Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation		
						Yes	No	
✓	AK	61-017151	01/25/86	Japan	G03G	5/082	X	
	AL							
	AM							
	AN							
	AO							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)	
AP	
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AR	
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AV	
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AX	
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AZ	

Examiner: 	Date Considered: 10-14-05
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1  
Stylesheet Version v1.1.1

Title of Invention

ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES

Submission Type: Information Disclosure Statement

Application Number: 10/639077

\*10/639077\*

EFS ID: 63070

Server Response:

Confirmation Code	Message
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ICON1	6943
USPTOEFSNotice	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number: 1(866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a>

First Named Applicant: Joseph Hillman

Attorney Docket Number:

Timestamp: 2004-06-22 13:07:02 EDT

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6/22/2004

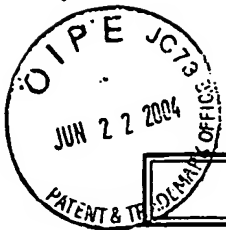
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Page 2 of 2

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Digital Certificate Holder cn=Thomas B. Haverstock,ou=Registered Attorneys,ou=Patent and Trademark  
Name: Office,ou=Department of Commerce,o=U.S. Government,c=US



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

ALIGNMENT MEANS FOR CHAMBER CLOSURE TO  
REDUCE WEAR ON SURFACES

Application Number: 10/639077



Confirmation Number: 6943

First Named Applicant: Joseph Hillman

Attorney Docket Number:

Search string: ( 5186594 or 5769588 or 5906866 or 5975492  
or 6122566 or 6355072 or 6454519 or  
20030205510 or 20040020518 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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Note: Applicant is not required to submit a paper copy of cited US Published Applications

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Signature

Examiner Name

Date

APP\_ID=10639077

*Raz*

10-14-05





**UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1  
Stylesheet Version v1.1.1

<b>Title of Invention</b>	<b>ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES</b>		
<b>Submission Type:</b>	Information Disclosure Statement		
<b>Application Number:</b>	10/639077	<b>*10/639077*</b>	
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	ICON1	6943	
	USPTOEFSNotice	<p>The documents provided in this submission were accepted by the USPTO. However, the fees associated with new utility and provisional Electronic Filing System (EFS) submission were not accepted by our automated systems because the USPTO software has not yet been updated for the fee structure and amounts required by the Consolidated Appropriations Act, 2005, Section 801, of Division B. In due course a corrected fee may be assessed due to changes associated with the Appropriations Act. We will charge the amount indicated in your submission. If at least the basic filing fee accompanied a new utility or provisional EFS submission, then no surcharge based on fee deficiency will be applied when any fee deficiency is paid. For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll -Free Number: 1866 217-9197 Website: <a href="http://www.uspto.gov/ebc/">www.uspto.gov/ebc/</a></p>	

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12/15/2004

Acknowledgement Receipt

Page 2 of 2

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12/15/2004

TRANSMITTAL							
Electronic Version v1.1 Stylesheet Version v1.1.0							
<b>Title of Invention</b>	<b>ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES</b>						
<b>Application Number:</b>	10/639077 *10/639077*						
<b>Date:</b>	2003-08-11						
<b>First Named Applicant:</b>	Joseph Hillman						
<b>Confirmation Number:</b>	6943						
<b>Attorney Docket Number:</b>							
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>							
<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Thomas B. Haverstock Registered Number: 32571</td><td>/tbh/</td><td>Attorney</td></tr></tbody></table>		Submitted by:	Elec. Sign.	Sign. Capacity	Thomas B. Haverstock Registered Number: 32571	/tbh/	Attorney
Submitted by:	Elec. Sign.	Sign. Capacity					
Thomas B. Haverstock Registered Number: 32571	/tbh/	Attorney					

<b>Documents being submitted</b>	<b>Files</b>
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	us-ids.dtd
	us-ids.xsl
<b>Comments</b>	

## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8

Stylesheet Version v1.8.0

Title of Invention	ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES						
Application Number:	10/639077 *10/639077*						
Confirmation Number:	6943						
First Named Applicant:	Joseph Hillman						
Attorney Docket Number:							
Search string:	(3623627 or 4426358 or 4574184 or 5374829 or 5474410 or 5879459 or 6048494 or 6062853 or 6089377 or 6406782 or 20010050096).pn.						
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
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<input checked="" type="checkbox"/>	2	4426358	1984-01-17	Johansson			
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<input checked="" type="checkbox"/>	10	6406782	2000-06-18	Johnson et al.	B2		
US Published Applications							
Note: Applicant is not required to submit a paper copy of cited US Published Applications							

Init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
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Signature

Examiner Name	Date
Ra	10-14-05

12-15-04

**ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18

Stylesheet Version v18.0

**Title of  
Invention****ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE  
WEAR ON SURFACES**

Application Number : 10/639077



Confirmation Number: 6943

First Named Applicant: Joseph Hillman

Attorney Docket Number:

Art Unit:

Examiner:

Search string: ( 3623627 or 4426358 or 4574184 or 5374829 or 5474410 or 5879459 or 6048494  
or 6062853 or 6089377 or 6406782 or 20010050096 ).pn**US Patent Documents****Note: Applicant is not required to submit a paper copy of cited US Patent Documents**

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<input checked="" type="checkbox"/>	1	3623627	1969-08-22	Alan S. Bolton			
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<input checked="" type="checkbox"/>	3	4574184	1986-03-04	Wolf et al.			
<input checked="" type="checkbox"/>	4	5374829	1994-12-20	Sakamoto et al.			
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**US Published Applications****Note: Applicant is not required to submit a paper copy of cited US Published Applications**

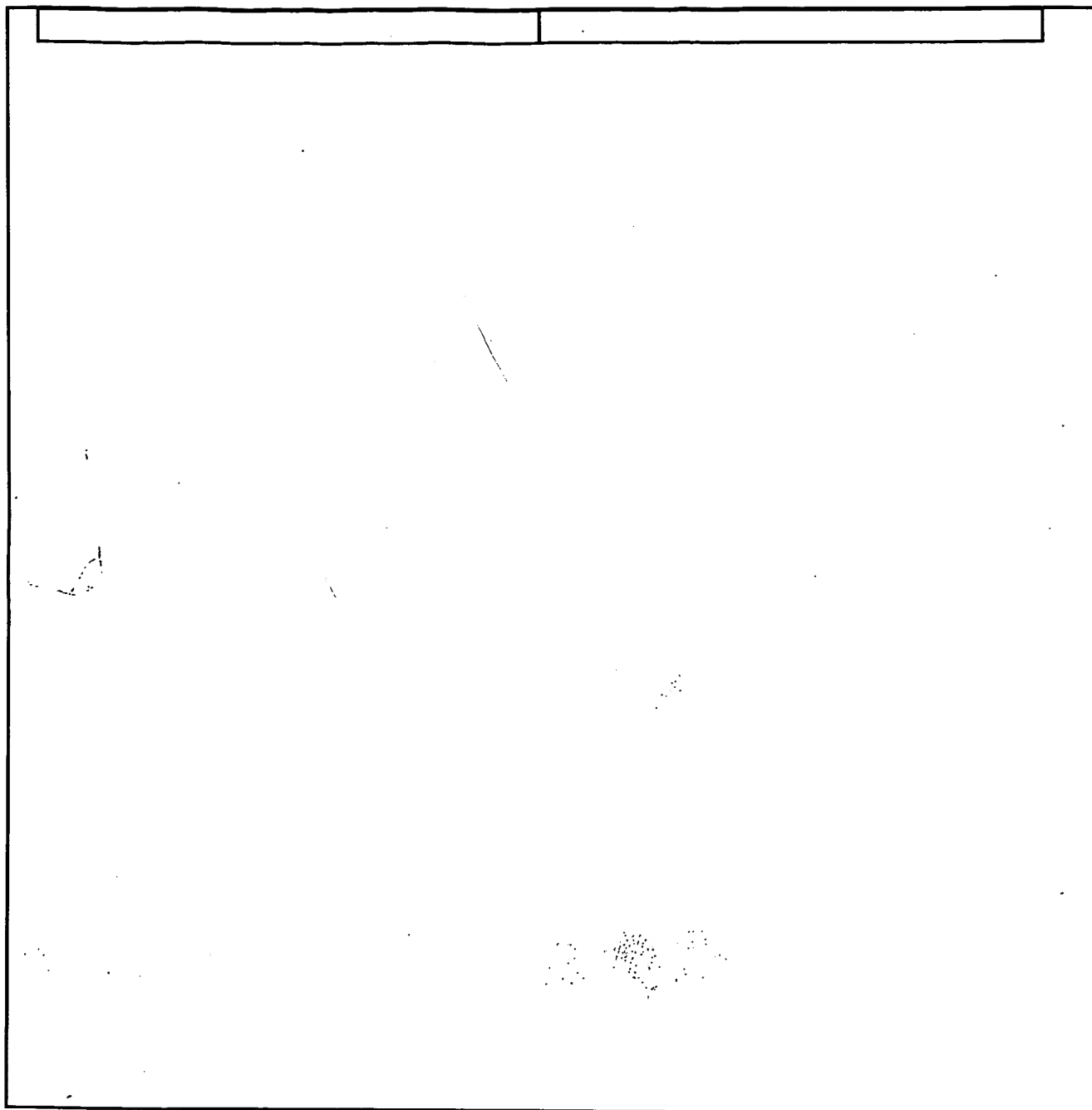
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**Signature**

Examiner Name

Date

10-14-05



2000

10/639077

**ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18

8-17-05

Stylesheet Version v18.0

<b>Title of Invention</b>	<b>ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES</b>
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Application Number : 10/639077  
 Confirmation Number: 6943  
 First Named Applicant: Joesph Hillman  
 Attorney Docket Number:  
 Art Unit:  
 Examiner:  
 Search string: ( 20030051741 ).pn



**Certification:** This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

**US Published Applications**

**Note:** Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	20030051741	2003-03-20	DeSimone et al.			

**Signature**

Examiner Name	Date
<i>Raz</i>	10-14-05

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

**Title of  
Invention**

**ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE  
WEAR ON SURFACES**

Application Number : 10/639077



Confirmation Number: 6943

First Named Applicant: Joseph Hillman

Attorney Docket Number:

Art Unit:

Examiner:

Search string: ( 5306350 or 5772783 or 5850747 or 5858107 or 5943721 or 5946945 or 5970554 or 6070440 or 6264753 or 6612317 or 6736149 or 6764552 or 6805801 or 6851148 or 6874513 ).pn

**Certification:** This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

## US Patent Documents

**Note:** Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
✓	1	5306350	1994-04-26	Hoy et al.			
	2	5772783	1998-06-30	Stucker			
	3	5850747	1998-12-22	Roberts et al.			
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	5	5943721	1999-08-31	Lerette et al.			
	6	5946945	1999-09-07	Kegler et al.			
	7	5970554	1999-10-26	Shore et al.			
	8	6070440	2000-06-06	Malchow et al.			
	9	6264753	2001-07-24	Chao et al.			
	10	6612317	2003-09-02	Costantini et al.			
	11	6736149	2004-05-18	Biberger et al.	B2		
	12	6764552	2004-07-20	Joyce et al.	B1		
	13	6805801	2004-10-19	Humayun et al.	B1		
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7-18-05

✓	15	6874513	2005-04-05	Yamagata et al.	B2		
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**Signature**

Examiner Name	Date
<i>Re</i>	10-14-05

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

<b>Title of Invention</b>	<b>ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES</b>
-------------------------------	---

Application Number : 10/639077  
 Confirmation Number: 6943  
 First Named Applicant: Joseph Hillman  
 Attorney Docket Number:  
 Art Unit:  
 Examiner:  
 Search string: ( 5494526 or 6333268 ).pn



**Certification:** This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

## US Patent Documents

**Note:** Applicant is not required to submit a paper copy of cited US Patent Documents

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## Signature

Examiner Name	Date
R	10-14-05

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

<b>Title of Invention</b>	<b>ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES</b>
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Application Number : 10/639077  
 Confirmation Number: 6943  
 First Named Applicant: Joesph Hillman  
 Attorney Docket Number:  
 Art Unit:  
 Examiner:  
 Search string: ( 20030036023 or 20040134515 ).pn



**Certification:** This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

## US Published Applications

**Note:** Applicant is not required to submit a paper copy of cited US Published Applications

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## Signature

Examiner Name	Date
	10-14-05

# ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

## Title of Invention

## ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE WEAR ON SURFACES

Submission Type : Information Disclosure  
Statement

Application Number:

10/639077



EFS ID:

81861

Server Response:

Confirmation Code	Message
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ICON1	6943
USPTOEFSNot	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1 (866) 217-9197 Website: <a href="http://www.uspto.gov/ebc/">http://www.uspto.gov/ebc/</a>

First Named Applicant: Joseph Hillman

Attorney Docket Number:

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Digital Certificate Holder  
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cn=Thomas B.  
Haverstock,ou=Registered  
Attorneys,ou=Patent and  
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Government,c=US

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

**Title of  
Invention**

**ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE  
WEAR ON SURFACES**

Application Number : 10/639077  
 Confirmation Number: 6943  
 First Named Applicant: Joseph Hillman  
 Attorney Docket Number:  
 Art Unit:  
 Examiner:  
 Search string: ( 4391511 or 6722642 ).pn



**Certification:** This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

## US Patent Documents

**Note:** Applicant is not required to submit a paper copy of cited US Patent Documents

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## Signature

Examiner Name	Date
<i>Ras</i>	10-14-05

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

**Title of  
Invention**

ALIGNMENT MEANS FOR CHAMBER CLOSURE TO REDUCE  
WEAR ON SURFACES

Application Number : 10/639077



Confirmation Number: 6943

First Named Applicant: Joseph Hillman

Attorney Docket Number:

Art Unit:

Examiner:

Search string: ( 3689025 or 5679169 or 6021791 or 6109296 or 6465403 or 6509141 or 6635565 or 6641678 ).pn

**Certification:** This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

## US Patent Documents

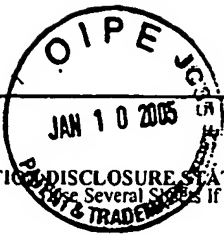
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<input checked="" type="checkbox"/>	3	6021791	2000-02-08	Dryer et al.			
<input checked="" type="checkbox"/>	4	6109296	2000-08-29	Austin			
<input checked="" type="checkbox"/>	5	6465403	2002-10-15	Skee	B1		
<input checked="" type="checkbox"/>	6	6509141	2003-01-21	Mullee	B2		
<input checked="" type="checkbox"/>	7	6635565	2003-10-21	Wu et al.	B2		
<input checked="" type="checkbox"/>	8	6641678	2003-11-04	DeYoung et al.	B2		

## Signature

Examiner Name	Date
<i>Ra</i>	10-14-05

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: SSI-08100		Serial No.: 10/639,077	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary) (37 CFR § 1.98(b))				Applicant: Joseph Hillman			
				Filing Date: August 11, 2003		Group Art Unit: 1762	
U.S. PATENT DOCUMENTS							
Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation
							Yes No
<i>Re</i>	AK	JP 8-206485	08/13/96	JP	B01J	3/06	
	AL						
	AM						
	AN						
	AO						
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)							
	AP						
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	AV						
	AW						
	AX						
	AY						
	AZ						
Examiner: <i>Ran</i>				Date Considered: <i>10-14-05</i>			
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Attorney Docket No.: COOL-08100

Serial No.: 10/639,077

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(See Several States If Necessary)

Applicant: Joseph Hillman

Filing Date: August 11, 2003

Group Art Unit: 1762

(37 CFR § 1.98(b))

## U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
M	AK	JP 40 5283511 A	10/29/93	JP	H01L	21/68	X	
N	AL	JP 2001-77074	03/23/01	JP	H01L	21/304	X	
	AM							
	AN							
	AO							

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	AP	
	AQ	
	AR	
	AS	
	AT	
	AU	
	AV	
	AW	
	AX	
	AY	
	AZ	

Examiner: *Ran*

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